

## **A PATTERN OF MEDICAL WORDS AND TERMS**

### **FIELD OF INVENTION**

1 Hierarchies of medical words and terms.

### **2 BACKGROUND OF THE INVENTION**

3 Patent 6,132,218 entitled Images for Communication of Medical Information in  
4 Computer granted on October 17, 2000 to this applicant, a first pending application  
5 entitled the Best American Healthcare System, docket number ABA 208, filed  
6 12/17/2002, a second pending application entitled A Method of Modulating Health-care  
7 Expenses, docket number ABA 0104, filed 01/12/2004, and an abandoned application,  
8 docket number ABA207, entitled the Best Healthcare System filed 11/18/2002 represent  
9 this applicant's continual quest to solve the current health-care crisis and improve  
10 people's health, quality of life and standard of living.

11 The thinkings and thought processes of the health-care consumers and buyers and  
12 physicians have always been and are distinctively different and of two different polarities.  
13 Consequently, there are constant conflicts among said people resulting in the horrendous  
14 health-care crisis. Prior to this patent application, neither solution nor means are available  
15 to resolve said difference. Therefore, the foremost objective of the present invention is to  
16 rid of or resolve said difference.

## 1        **SUMMARY OF THE INVENTION**

2        In health-care, lay people who are the consumers and buyers of the services and  
3        physicians have different thought processes and, consequently, there are constant  
4        conflicts among lay people and between lay people and physicians.

5        The present invention is a system permitting or conferring on a lay individual or lay  
6        people the ability to perform intellectual tasks or processes relating to their own health-  
7        care.

8        The present invention is an intelligent system comprising a unique pattern and hierarchies  
9        of medical words, phrases, terms and terminologies relating to health, illnesses, diseases  
10       and disorders of humans or animals wherein a plurality of series, groups, groupings,  
11       indexings and matrices of medical words, phrases, terms and terminology intelligently  
12       adaptable to render the comparisons, linkings, matchings and sortings of a layperson's or  
13       novice's word or words, phrase or phrases, term or terms and terminology or  
14       terminologies relating to an illness, a disease, a disorder, symptoms and signs to certain or  
15       specific medical words, phrases, terms and terminologies in and to certain group,  
16       grouping or index in said plurality of series, groups, groupings, indexings and matrices  
17       and vice versa. The present invention intelligently adaptable to refer and link to and  
18       retrieve certain and specific word, words, phrase, phrases, term, terminology,  
19       terminologies, group, grouping and/or index in said series, groups, groupings, indexings  
20       and matrices for a layperson.

## 21       **DESCRIPTION OF THE PREFERRED EMBODIMENTS**

22       The present invention of this physician applicant comprises a system of medical words,  
23       phrases, terms and terminologies adaptable to uniquely permit and confer on a lay  
24       individual or lay people the ability to perform intellectual tasks and processes relating to

1 health-care. Certain organization and structure of a vast body of medical information and  
2 knowledge exclusively known to this physician form the products and outcomes of the  
3 present invention.

4 Said system comprises a vast collection of medical words, phrases, terms, terminology  
5 and terminologies relating to health, illnesses, diseases, disorders, symptoms and signs or  
6 manifestations of humans or animals such as, but not limited to, swelling, enlargement,  
7 tender, lymphadenitis, car accident, tender, whiplash injuries, myocardial infarction,  
8 coronary insufficiency, internal medicine, cardiology, fever, sweating, nervousness,  
9 palpitations, subacute thyroiditis, endocrinology, bleeding, hemorrhage, migraine,  
10 carotodynia, neurology, pericarditis, firm, fluctuant, skin erythema, pustules, acute  
11 suppurative thyroiditis, Hashimoto's thyroiditis, pressure, Riedel struma, thyroid  
12 abscess, malignancies, amyloidosis, abscess.

13 Furthermore, said system comprises a plurality of medical phrases, terms and  
14 terminologies which are synthesized or permutated according to the discovery of this  
15 physician applicant. For example, using said words, a plurality of phrases, terms,  
16 terminology and terminologies can be synthesized or permutated such as, but not limited  
17 to, swelling, enlargement, tender, lymphadenitis and internal medicine physician, car  
18 accident, tender and whiplash injuries, myocardial infarction, coronary insufficiency and  
19 cardiology, fever, sweating, nervousness, palpitations, subacute thyroiditis and  
20 endocrinology, bleeding, hemorrhage and emergency medicine physician, migraine,  
21 carotodynia and neurology, pericarditis, firm, fluctuant, skin erythema and infectious  
22 disease physician, pustules, acute suppurative thyroiditis, Hashimoto's thyroiditis,  
23 pressure, Riedel struma and endocrinologist...including all stems, synonyms and the likes.

24 From said syntheses and permutations, a pattern and hierarchies of plurality of series,  
25 groups, groupings, indexings and matrices of medical words, phrases, terms, and  
26 terminologies can be synthesized or permutated. Said pattern and hierarchies intelligently

1 adaptable to render the comparisons, linkings, matchings and sortings of a layperson's or  
2 novice's word or words, phrase or phrases, term or terms and terminology or  
3 terminologies relating to an illness, a disease and a disorder including symptoms and  
4 signs to said plurality of series, groups, groupings, indexings and matrices and vice versa.  
5 First, for example, in the most simplistic presentation herein to facilitate understanding  
6 and visual localization of words, a layperson presents with a word, a plurality of words, a  
7 group or grouping of words such as, but not limited to, **swelling, enlargement, pain,**  
8 **tender** allows said group or grouping to relate to said system's **swelling, enlargement,**  
9 **tender, lymphadenitis and internal medicine physician,** car accident, tender and  
10 whiplash injuries, myocardial infarction, coronary insufficiency and cardiology, fever,  
11 sweating, nervousness, palpitations, subacute thyroiditis and endocrinology, bleeding,  
12 hemorrhage and emergency medicine physician, migraine, carotodynia and neurology,  
13 pericarditis, firm, fluctuant, skin erythema and infectious disease physician, pustules,  
14 acute suppurative thyroiditis, Hashimoto's thyroiditis, pressure, Riedel struma and  
15 endocrinologist... including all stems, synonyms and the likes. Said system also takes into  
16 account all layouts, presentations or possible permutations of words, phrases, terms, and  
17 terminologies. In other words, for example, the permutations of 4 words are 24  
18 permutations of terms such as 1. swelling, enlargement, pain, tender, 2. swelling, pain,  
19 enlargement, tender, 3. tenderness, swelling, pain, enlargement...to 24. pain, swelling,  
20 enlargement, tender. Second, furthermore, said interaction, i.e. compare, link, match and  
21 sort, between said layperson's group or grouping of words and said plurality of series,  
22 groups, groupings, indexings and matrices of said system can also be reversed.

23 Said pattern and hierarchies intelligently adaptable to render a layperson's or novice's  
24 word, words, phrase, phrases, term, terms, terminology, terminologies relating to an  
25 illness, a disease and a disorder including symptoms and signs to compare, link, match  
26 and sort in said plurality of series, groups, groupings, indexings and matrices and vice  
27 versa.

1 To achieve the goals of the present invention, using said pattern and hierarchies of  
2 plurality of series, groups, groupings, indexings and matrices of medical words, phrases,  
3 terms, and terminologies are synthesized and permuted using the knowledge known  
4 only to this physician applicant, said system's vast volume and infinite permutations of  
5 medical words, phrases, terms and terminologies relating to health, illnesses, diseases and  
6 disorders including symptoms and signs of humans or animals and physicians'  
7 demographics relating to illnesses, diseases and disorders are in term-by-documents or  
8 term-by-document matrices or patterns. In said matrices or patterns, each medical word,  
9 phrase, term or terminology is a vector in the vector space information retrieval model.  
10 Furthermore, each medical word, phrase, term or terminology is assigned certain  
11 statistical and mathematical weights or importances using statistical and mathematical  
12 means such as, but not limited to, Bayesian statistics, probability statistics in said  
13 matrices or patterns. The medical information and knowledge exclusively known only to  
14 this physician applicant exclusively permits the document analysis of said words, phrases,  
15 terms or terminologies wherein unique words, phrases, terms or terminologies to the  
16 documents of said matrices or patterns were assigned. Similarly, the medical information  
17 and knowledge exclusively known to this physician applicant exclusively permit the  
18 token analysis and item normalization including identification of processing tokens,  
19 characterizations of tokens and stemming exclusively by this physician applicant of said  
20 words, phrases, terms and terminologies. Said words, phrases, terms and terminologies  
21 are assigned specific relevances and associations to relevant said documents of said  
22 matrices or patterns.

23 Said medical information and knowledge permit the rendering of words, phrases, terms  
24 and terminologies according to the inverted file structures and signature file structures  
25 thereby optimally effectuate the specific and unique relevances and associations of said  
26 words, phrases, terms, and terminologies in said series, groups, groupings, indexings and  
27 matrices.

1 Furthermore, said processes including indexings of words, phrases, terms and  
2 terminology include conceptual-based indexings and latent semantic indexings.

3 Although the preferred embodiments have been described, it will be appreciated by those  
4 skilled in art that adaptations of the present invention can be had without departing from  
5 the spirit of the invention and the scope of the claims.